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	Application No.	Applicant(s)		
	10/634,281	TAKEHARA ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Victor A Mandala Jr.	2826		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. A This communication is responsive to Election filed on 7/9/0	<u>)4</u> .	1		
2. The allowed claim(s) is/are <u>4-7</u> .		NATHAN U. ELYNN SUPERVISORY PATENT EXAMINER		
3. The drawings filed on <u>04 August 2003</u> are accepted by the Examiner. TECHNOLOGY CENTED 2800				
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 1. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	e been received. e been received in Application No cuments have been received in this communication to file a reply fiend of this communication to file a reply fiend of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declara est be submitted. son's Patent Drawing Review (PTO- s Amendment / Comment or in the Co .84(c)) should be written on the drawin he header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL n	national stage applical complying with the red application is deficient. 948) attached application of the application of the front (not the d).	quirements OTICE OF	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/26/03 & 8/4/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), te nent/Comment	,	

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Douglas P. Mueller on 8/2/04.

The application has been amended as follows:

4. (currently amended) A high-frequency semiconductor device comprising: a first

ceramic substrate having a circuit pattern; a second ceramic substrate on which semiconductor

elements are mounted; and a composite resin material layer that buries the semiconductor

elements and is provided and vertically aligned between the first ceramic substrate and the

second ceramic substrate; wherein the composite resin material layer is formed by a composite

resin material including an epoxy resin and an inorganic filler material, interlayer connector

structures in which a conducting resin material has been filled are formed in the composite resin

material layer, and the circuit pattern of the first ceramic substrate and a circuit pattern of the

second ceramic substrate are electrically connected via the interlayer connector structures.

Cancel claims 1-3, which were canceled in the filing of the divisional and cancel claim 8.

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The following is an examiner's statement of reasons for allowance:

The prior art teaches semiconductor elements between ceramic substrates, with respect to a linear line in an angular direction which defines the term between, with a filler material between and an interlayer electrically conductive connector but the prior art does not teach the above teachings with the addition of the semiconductor elements being vertically aligned and between the ceramic substrates.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 4-7 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor A Mandala Jr. whose telephone number is (571) 272-1918. The examiner can normally be reached on Monday through Thursday from 8am till 6pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VAMJ 8/3/04